TEVLIN, A.M., kand.tekhn.nauk, dotsent

Helical design and its use in the solution of geometrical and engineering problems. Izv.vys.ucheb.zav.; mashinostr. no.2: 130-141 '62. (MIRA 15:5)

1. Moskovskiy aviatsionnyy institut. (Geometry, Projective)

CHETVERUKHIN, Mikolay Fedorovich, prof.; LEVITSKIY, Vladimir
Sergeyevich; PRYANISHNIKOVA, Zoya Ivanovna; TEVILH,
Abram Maksimovich; FEDOTOV, Georgiy Ivanovich

[Descriptive geometry] Nachertatel'naia geometriia. Izd.2.,
perer. i dop. [By] N.F.Chetyernkhin i dr. Moskva, Vysshaia
shkola, 1963. 419 p. (MIRA 17:5)

BARTOLOMEY, G.G., kand.tekhn.nauk; SUVOROV, V.A., inzh.; TEVLIN, S.A., inzh.

Study of the hydrodynamics of the steam generator of a two-stage atomic power plant. Teploenergetika 10 no.1:52-58 Ja '63.

1. Moskovskiy energeticheskiy institut.

(Atomic power plants)

Ш278

21.100

S/096/63/000/001/005/006 E194/E155

AUTHORS:

Bartolomey, G.G., Candidate of Technical Sciences; Suvorov, V.A., Engineer; and Tevlin, S.A., Engineer.

TITLE:

An investigation of the hydrodynamics of the steam generator of a double-circuit nuclear power station

PERIODICAL: Teploenergetika, no.1, 1963, 52-58,

TEXT: Steam tends to accumulate in parts of the very compact heat-exchangers used with boiling-water reactors in nuclear power stations. Accordingly, boiler no.3 of TETs MEI was adapted as a thermal model of a double-circuit boiling-water reactor, to study the proportion of steam in the steam/water mixture at various points in the steam generator. The proportions were determined by passing gamma radiation through the mixture and measuring the attenuation. In preference to large external sources of radiation, cobalt-60 sources on steel rods were used in pockets resembling thermometer pockets, fitted at 14 different heights in the steam generator. Full theoretical justification of the method is given, together with the necessary formula. It assumes that the radiation detector is adequately shielded against radiation Card 1/2

An investigation of the hydrodynamics. S/096/63/000/001/005/006

dispersed within the water layer, so that the latter has a linear absorption whatever the proportion of steam in the mixture. The thickness of the collimator screen (in front of the detector) and of the container walls of the detector were determined experimentally. The mean of three determinations of steam-content agreed with Kutateladze's formula. The proportion of steam increased more rapidly in the upper tube bundles of the generator than in the lower. Those mid-way added hardly any steam, probably because the heat-exchange surface was excessive. Steam was distributed irregularly over the section of the upper bundles, being concentrated near the drum walls. Steam-content was everywhere fluctuating, probably because of the shallowness of the bubbling layer over the heat-exchange surface. If its depth were increased, by removing some tube bundles, the steam-content in a large-diameter free volume could be determined, to check the criterial formula. There are 7 figures.

ASSOCIATION: Moskovskiy energeticheskiy institut
(Moscow Power Engineering Institute)

Card 2/2

TEVLIN, Ya. I. [Tevlin, IA. I.], starshiy vikladach.

Classes with manual training instruction and their role in the preparetion of students for practical work. Mauk. zap. ChnP1 11:51-61 '57.

(Cherkassy—Technical education)

(Cherkassy—Technical education)

Chomical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
General and Physical Chemistry

Cation-exchanging ratio sorbents. 1. P. Losev R. II.

(Pub. 1932)—A brief treview Asim Nauk 1950, 103-0
useful as ion exchange agents. 2 references. G. M. K

DUBININ, M.M., akademik, otvetstvennyy redaktor; GAPON, Ye.N.; GAPON, T.B.;

ZHYPAKHINA, Ye.S.; RACHINSKIY, V.V.; BELEN'KAYA, I.M.; SHUVAEVA, G.M.;

ROGINSKIY, S.Z.; YANOVSKIY, N.I.; FUKS, N.A.; KISELEV, A.V.; HEYMARK, I.Ye.;

SLINYAKOVA, I.B.; KHATSET, F.I.; LOSEV; I.P.; TROSTYANSKAYA, Ye.B.;

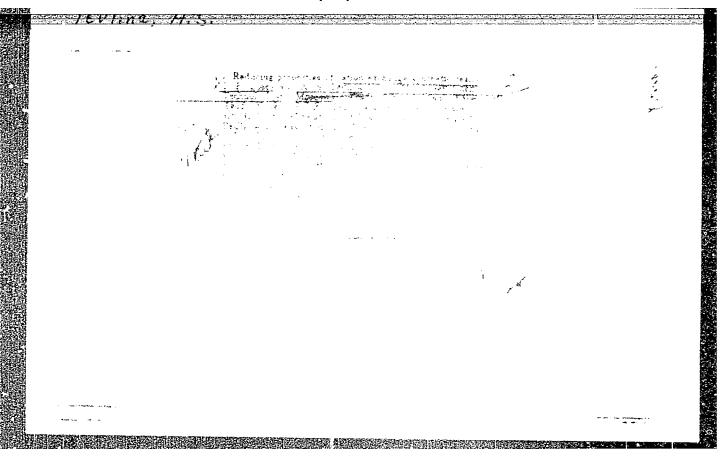
TEVLINA, A.S.; DAVANKOV, A.B.; SALDADZE, K.M.; BHUMBERG, Ye.M.; ZHIDKOVA,

Z.V.; VEDENEEVA, N.Ye.; HAPOL'SKIY, S.A.; MIKHAYLOVA, Ye.A.; KAZANSKIY, B.A.;

RYABCHIKOV, D.I.; SHEMYAKIN, F.M.; KRETOVICH, V.L.; BUNDEL', A.A.; SAVINOV,

[Research in the field of chromatography transactions of the All-Union Conference on Chromatography, November 21-24, 1950] Issledovaniia v oblasti khromatografii; trudy Vsesoiuznogo soveshchaniia po khromatografii, 21-24 noiabria 1950 g. Moskva, Izd-vo Akademii nauk SSSR, 1952. 225 p. (MLRA 6:5)

1. Akademiya nauk SSSR. Otdelenie khimicheskikh nauk.
(Chromatographic analysis)



Subject : USSR/Chemistry

AID P - 1372

Card 1/1 Pub. 119 - 5/6

Authors : Trostyanskaya, Ye. B., Losev, I. P., and Tevlina, A. S.,

Title

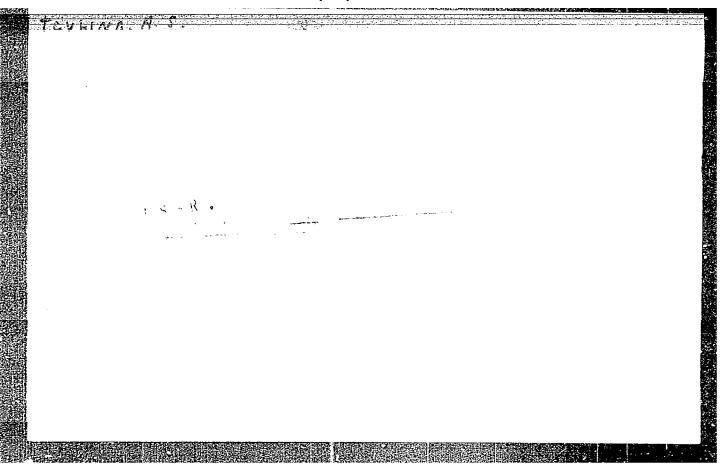
: Cation-exchange and electron-exchange resins

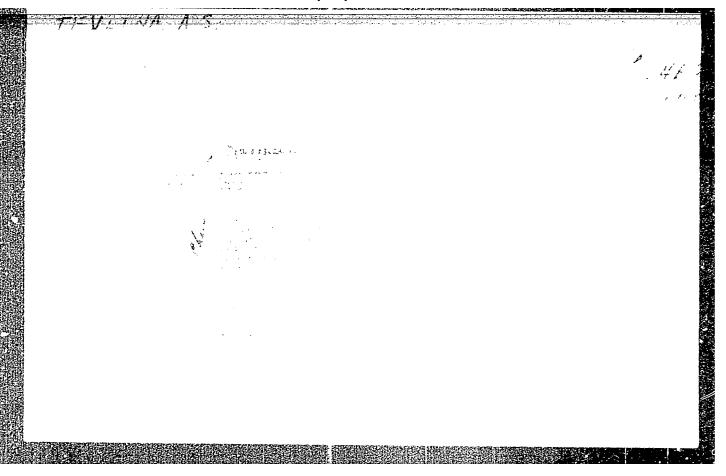
Periodical : Usp. khim., 23, no. 1, 69-92,

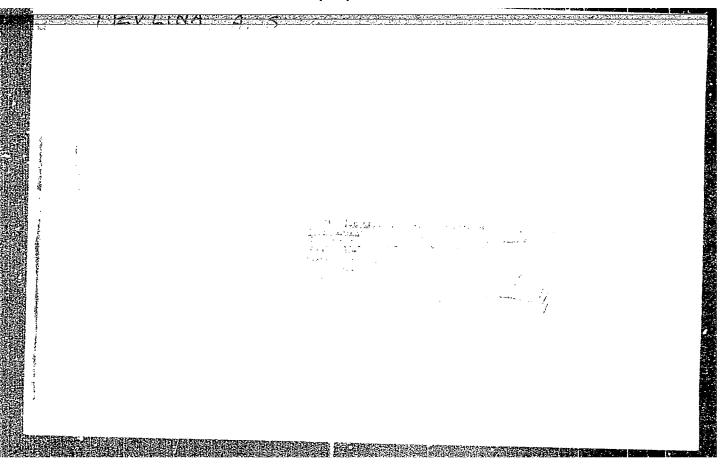
Abstract : A review is given of the literature on cation- and electron-exchange resins and their preparation, with emphasis on work done by Russian chemists. Eight diagrams, 3 tables, 146 references (81 Russian:

Institution : None

Submitted No date







TEVLINA, A.S.

AUTHORS:

Trostyanskaya, Ye. B., Tevlina, A. S.

32-9-5/43

PITLE:

Selective Ion Exchange Sorbents for the Chromatographical Analysis (Selektivnyye ionoobmennyye sorbenty dlya khromato-

graficheskogo analiza)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 9, pp. 1042-1049 (USSR)

ABSTRACT:

Out of the highly acid cations, which in the USSR are produced for the chromatographical analysis, the types SDB, KU-2, SBS have proved to be the best. They all are products of a sulphation of the polymerides of styrole with any "arching component". Out of the highly basic anionites the sorbent EDE-10P has to be mentioned. It is shown that the synthesis of the ionite-sorbents, to the structure or composition of which the selective sorption is predestined, is the better method of ion exchange chromatography. This method offers infinite possibilities for the ionite synthesis, which are converted into a set of reagents of confined special determination. The selectivity can be obtained by modifying the permeability of theionite or by choice of type and mutual position of the ions generating groups. The "ionite filters" for separation of the organic ions from the inorganic ones or for dividing organic ions, which differ by the height of their molecular weight have been applied more than all. Even more possibilities for producing selective ionites offers the synthesis of insoluble

Card 1/2

Selective Ion Exchange Sorbents for the Chromatographical Analysis. 32-9-5/43

matters with different ions generating groups or with different mutual position of the groups. It has been ascertained that together with the lowering of the dissociation degree of the ions generating groups the difference of the bond solidity between the single ions of the solution and the ionite increases. For this reason here the sorbents were produced by synthesis with slightly acid groups. Here the characteristics of the selectivity of ionites has been written down in the form of tables, namely 1) those which were obtained by modification of the functional groups of the ionite and 2) those obtained by modification of the macro-molecular structure of the ionite. It is shown that the separation of the complicated electrolyte mixtures, which are contained in thesolutions, can be obtained not only by careful choice of the filtering process, of the medium-and "eluate"-composition, but also by a modification of the physical structure of the ionite or a mutual combination of the ion generating groups in it. There are 4 tables and 40 references, 12 of which are Slavic.

ASSOCIATION:

Moscow Chemical-Technological Institute imeni D.I.Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut im.D.I.Mendeleyeva)

AVAILABLE: Card 2/2 Library of Congress

The second secon

AUTHORS: Trostyanskaya, Ye. B., Losev, I. P., Tevling, A. S. (Moscow) SOV/74-27-9-3/5 TITLE:

The Synthesis and Applications of the Polymer Electrolytes (Sintez polimernykh elektrolitov i ikh primenemiye)

PERIODICAL:

DANS ACTION OF THE PROPERTY OF

Uspekhi khimii, 1958, Vol 17, Mr 9, on 1084-7100 (USDR) ABSTRACT:

First, the authors point out that in the present paper only those basic trends of the synthesis of polymer electrolytes are given which in their earlier paper (Ref 1) and in some other publications (Refs 2-6) have not been taken into account. In chapter one the synthesis of the soluble polymer electrolytes is discussed (Refs 7-16). Various model systems are mentioned which are of special importance for the investigation of the behavior of polymer electrolytes. In chapter two the synthesis of insoluble polymer compounds in the form of fibers is mentioned (Refs 17-27). Chapter three only deals with the synthesis of insoluble polyelectrolytes in granular form (ionites) (Refs 28-53). The authors deal in detail with the new anionites produced by the chemical transformation of styrene copolymers with divinyl benzene (Refs 54-101). In

chapter four the authors discuss the synthesis of insoluble Card 1/2 polyelectrolytes in form of membranes and films (Refs 103-143).

The Synthesis and Applications of the Polymer Electrolytes:09/74-27-9-3/5

The methods of the synthesis of highly electic homogeneous films (Ref 138) are of special interest. The use of heterogeneous membranes and films in installations for the electrodialysis is discussed. Finally the authors mention that they succeeded in producing elastic and resistive films using rubber and rubber-like elasticity gages. There are 5 figures, 4 tables, and 145 references, 47 of which are flowiet.

Cara 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520001-5"

5.383/ 5 (3), 5 (1) AUTHORS:

Trostyanalaym, Tele De,

0/064/59/000/07/006/035 B005/B123

Makarova, S. B., Tevlina, A. S.

TIPLE:

Chloromethylation of Copolymers of Unglaromatic Compounds

PERIODICAL:

Khimicheskaya promyshlennost, 1959, Nr 7, pp 577 - 580 (USSR)

ABSTRACT:

In the introduction to the present paper the authors discuss some methods described in publications of the chloromethylation of polymers and copolymers in styrene/(Refs 5-10). In all these methods chloromethyl ether or dichloromethyl ether were used as reagents. The use of these reagents in industrial syntheses is not advisable as they are very volatile and produce poisonous vapors. The authors investigated the conditions under which the Blanc reaction can be applied to a chloromethylation of various copolymers in vinyl-aromatic compounds. In the Blanc reaction formaldehyde and hydrochloric acid are used as reagents instead of chloromethyl ether. Ordinary zinc chloride usually serves as catalyst. When applying this reaction to the chloromethylation of copolymers of styrene, however, intermolecular secondary reactions are caused by the great mobility of the chlorine atom in the chloromethyl group, that lead to a cross-linking of the

Card 1/3

Chloromethylation of Copolymers of Vinylaromatic

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\$/064/59/000/07/006/035 B005/B123

polymer. The authors found out that the degree of cross-linking during the chloromethylation of linear copolymers of styrene is reduced with an increasing amount of aliphatic residues (that cannot be chloromethylized). Table 1 shows the results of chloromethylation of copolymers in styrene with 1,3-butadienes depending on the number of styrene molecules in the polymer. In further experiments the Blanc reaction was applied to the chloromethylation of three copolymers of styrene with various degrees of cross-linking (diene components: divinylbenzene, liallyl maleate, ethylene glycol-dimethacrylate). Table 2 and figure 1 show the results obtained (influence of the diolefin structure upon the degree of chloromethylation and the period of reaction. The content of chlorine in the copolymers, after a certain period of chloromethylation (in all cases investigated 8-10 hours), reaches a maximum and then declines again. Of the three polymers investigated the copolymer of styrene with diallyl maleate showed the maximum chloromethylation under the same conditions. Table 3 shows the influence of catalysts upon the degree of chloromethylation. ZnCl2, SnCl2, and SnCl4 increase the yield

Card 2/3

Chloromathylation of Copolymers of Vinylaromatic

67786 S/064/59/000/07/006/035 B005/B123

of chloromethylation to the same extent. If the catalyst exceeds 75% of weight of the styrene compounds in the copolymer, the yield is not increased (Fig 2). The authors applied the Blanc reaction also to the chloromethylation of cross-linked copolymers containing condensed aromatic rings. The chloromethylated products of various copolymers of styrene and vinylnaphthalene were used for the production of insoluble quaternary ammonium bases that are important as anion-exchange resins. These quaternary ammonium bases have a swelling capacity in water that differs with the structure of the original copolymer. Thus it becomes possible to apply the chromatographic method of "ion-sieves", that up to now has only been used for separating cations, to the separation of anions as well. Table 4 shows the most important characteristics of the strongly basic "anionsieves" obtained by the authors. There are 3 figures, 4 tables, and 11 references, 5 of which are Soviet.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Institute of Chemical Technology

Card 3/3 .

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520001-5"

FEASE I BOOK EXPLOITATION SOV/4984	International symposium on macromolecular chemistry. Moscow, 1960.	Methomarodnyy simpozium po makromolekulyarnoy khimil SSSR, Boakra, 14-18 iyunya 1960 g.; doklady i avtoreferaty. Sektalya III. (International Symposium on Macromolecular Chemistry Bold in Moscow, June 14-18, 1960; Papers and Summaries) Section III. [Moscow, Izd-vo AN SSSR, 1960] 469 p. 55,000 copies printed.		Sponsoring Agency: The International Union of Pure and Applied Chemistry. Commission on Macromolecular Chemistry.	FURPOSE: This book is intended for chemists interested in poly- merization reactions and the synthesis of high molecular compounds.	GURZAME: This is Section III of a multivolume work containing papers on macronolecular chemistry. The articles in greenel deal with the kinetics of polymerization reactions, the synthesis of special-purpose polymers, e.g., fon exchange realists, sec., methods of catalyting polymerization reactions, properties and checical factors of high molecular naterials, and the effects of various factors on polymerization and the degradation of Magnacolaular naterials, and the effects of Various factors on polymerization and the degradation of Magnacolaular openumds. We personalities are mentioned.	Rabek, T. I., and J. Ecanider (Poland). Chlorination of Phenol-Formaldshyde Reains 27	Alexandru, L., / M. Corts, and A. Cioconej (Rumania). Cyancethyl and Aminopropyl Ethers of Polyvinyl Alcohol 34	Takubowich, A. Yas, G. Ts. Gordop, L. I. Maslanikova, Tt. M. Gordenn, K. I. Treitrakova, and M. I. Kokoreva (USSR). Spandern, B. Chesteal Conversions of Polycarbonates Deandern, B. A., M. S. Pellottern, and R. M. Belynyawa (USSR). Chemical Interaction and Mechanism of the Activating Action	Locustraine Specims of Vilcanization Accelerators Vincinizate 1. M. A. P. Vorob Year, Q. A. Shirokova, and M. P. Socializate 1. M. Esters of Sulfuric Acid and Polyvinyl Alcohol	**************************************	Gerderith, H. A., B. Z. Davidor, B. A. Ermisel', I. H. Rus- Fanator, L. 3. Folak, A. V. Topchiyev, and R. H. Vortenko- (USSR). The Production of Folymeric Materials which Exhibit Semiconductor Properties	Elkes A., and L. L. Koying (Hungary). Chemical Properties of Bipolar Ion-Exchange Resins	(Rabek. T., and J. Morawles (Poland). Effect of the Struc- ture of Organic Amino Cospounds on the Properties of Anion Exchange Resing From Polystrene	Saldadre, K. M. (USSR). The Problem of the Effect of the Sfructure of Ionites on Ion-Exchange Processes Between 107	£.	Trostyranskaya, Ye, V. I. P. Losev, A. S. Tryling, S. B. Bakarora, Q. Z. Nefedova, and in Histor. Jac (USSN), Chemical Conversions of Insoluble Copolymers of Styrene Lindersu, J. (Poland). Thermal Stability of Strongly Basic Anton Exchange Reams.	
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S/190/60/002/009/016/019 B004/B060

AUTHORS:

Trostyanskaya, Ye. B., Tevlina, A. S., Losev, I. P.

TITLE:

The Problem of the Polymerization of Monomers in Swelling

Copolymers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 9

pp. 1413-1418

TEXT: The authors wanted to synthesize vitreous polyelectrolytes with high concentration of ionogenic groups. The following were polymerized:

1) Vinyl sulficia acid or methacrylic acid in granules of the ion exchanger CAB(SDV). Va copolymer made of styrene and divinyl benzene, in which sulfo groups were introduced during a four-hour treatment with sulfuric acid at 80°C in the presence of AlCl₃; 2) 2-methyl-5-vinyl pyridine in granules of the ion exchanger ACA(ASD), the same copolymer that was chloromethylated by means of paraformaldehyde and hydrochloric acid in the presence of zinc chloride, and whose chlorine atoms were then substituted at 40-60°C (10 h) by triethanol amine, pyridine, or trimethyl amine. The

Card 1/3

The Problem of the Polymerization of Monomers S/190/60/002/009/016/019 in Swelling Copolymers S/190/60/002/009/016/019

granules of the copolymer were swelled in the dissolved monomer, the excess solvent was removed, and polymerization was carried out during 4 h at room temperature, and 8 h at 55-85°C in sealed ampuls. After polymerization the granules were extracted with alkalies, acids, or organic solvents. Table 1 specifies the increase in grain size and weight of the granules, Table 2 the content of ionogenic groups, Table 3 the variation in the sulfur and nitrogen content, change of the acid number or amine number, and variation in the swelling capability. A figure shows the curve of potentiometric titration of insoluble polymeric acids and bases. Table 4 gives the reproducibility of the polymerization process. With a view to clarifying whether the ionogenic groups of the copolymers bear an influence on polymerization, copolymerization was carried out in ZnSO4- or Na2SO4treated films made of polyvinyl alcohol with sodium methacrylate or methyl vinyl pyridine hydrochloride. Also in this case, where an interaction between the functional groups of the polymer and copolymer was missing, a stable, swelling system was formed. The authors assume that the monomer is polymerized in the copolymer by grafting. There are 1 figure, 4 tables, and 7 references: 2 Soviet, 4 US, and 1 German.

Card 2/3

The Problem of the Polymerization of Monomers S/190/60/002/009/016/019 in Swelling Copolymers

B004/B060

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I.

(Moscow Institute of Chemistry and Technology imeni D. I.

Mandeleyev)

SUBMITTED: April 19, 1960

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520001-5"

Card 3/3

S/075/60/015/004/005/030/xx B020/B064

AUTHORS:

Trostyanskaya, Ye. B. and Tevlina, A. S.

TITLE:

Electron Exchanging Insoluble Polymers

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4,

PP · 402 - 404

THE PERSON OF TH

TEXT: In the introduction, the authors give a short survey of the redox reactions obtained in analytical chemistry by means of electron exchangers. Electron exchanging resins are synthesized by copolymerization of vinyl hydroquinone and styrene or vinyl pyridine, or by copolycondensation of hydroquinone and phenol with formaldehyde. The electron exchange is due to the reversible transition of the hydroquinone structure in the macromolecule to the quinoid structure. The electron exchangers suggested possess, however, a lower mechanical strength and chemical stability, and in addition to this, their capability of electron exchange decreases after several oxidation and reduction cycles. It has previously been suggested to prepare electron exchangers introducing sulfohydryl groups in styrene- and divinyl benzene copolymers. The authors examined the Card 1/3

Electron Exchanging Insoluble Polymers

S/075/60/015/004/005/030/XX B020/B064

methods of preparing sulfohydryl copolymers, determined the most favorable conditions for this reaction, as well as the properties of the thiol copolymers. The initial products were chloromethylated copolymers of styrene and divinyl benzene (SD), or of diallyl maleate (SAM). Copolymerization was carried out on grains having a diameter of 0,25 to 0,5 mm; the grains were caused to swell in dichloro ethane and then chloromethylated by simultaneous action of paraform and hydrogen chloride in the presence of ZnCl2. The chloromethylated copolymer SD contains 14% chlorine and the chloromethylated copolymer SAM 16% chlorine. The substitution of the chlorine atoms in the copolymers by sulfohydryl groups can be carried out by the action of Na₂S or thiourea and subsequent saponification with lye. In the reaction with thiourea, which is more effective, the copolymer contains 11% sulfur and its acid number, determined with NaOH, is 156 mg/g; the entire sulfur forms thionyl groups in the copolymer. The copolymers swell slightly in water (18-20%) and retain their vitreous state and the strength characteristic of the initial copolymers. A figure shows the results of experiments on the reduction capacity of styrene- and divinyl benzene thiol copolymers, as well as of Card 2/3

Electron Exchanging Insoluble Polymers

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styrene- and diallyl maleate thiol copolymers on Fe^{3+} , and the reproducibility of this capacity after displacement of the adsorbed ions and reduction of the polymer. The last-mentioned procedure is based on the washing of the column with a 10% sodium hydrosulfite solution, i.e., with a volume 15 times as high as that of the thiol copolymer in the column. The total reduction capacity of the copolymer SD for the iron ion is 380.8 mg, and that of the copolymer SAM, 392 mg/g. On the basis of the results obtained it may be assumed that the majority of sulfohydryl groups in the copolymer oxidize and form sulfinic acid groups entering into an ion exchange reaction with part of the reduced cations. The sulfohydryl copolymers reduce 80 mg/g Cu⁺ from a CuCl₂ solution and

150 mg/g metallic silver from a silver salt solution. There are 1 figure and 9 references: 3 Soviet, 2 German, 3 US, and 1 British.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D. I. Mendeleyeva (Moscow Institute of Chemical Technology

SUBMITTED:

May 5, 1949 [Abstracter's note: Presumably 1959]

Card 3/3

5.5700

2209, 1273, 1274

\$/075/60/015/006/006/018 B020/B066

AUTHORS:

Trostyanskaya, Ye. B. and Tevlina, A. S.

TITLE:

Characteristics of Ionite Membranes

SEASON OF THE PROPERTY OF THE

PERIODICAL:

Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 6,

TEXT: Investigations of the properties of ionite membranes had been previously carried out by Ye. A. Materova and F. A. Belinskaya (Ref. 11) as well as by V. S. Titov (Ref. 12). In addition to these papers, the authors compared the icn-exchange properties of ionites and the electrical resistivity of membranes made of them. The method described in Refs. 9 and 13 for the production of heterogeneous membranes was applied. The highest mechanical, chemical, and thermal stability of heterogeneous membranes is obtained by using rubber, especially chloroprene- or carboxylate copolymers of butadiene and styrene as binders. The ionite content in the membrane was 70%. In order to compare the influence of the type of ionogenic groups upon the ion-exchange properties and electrical conductivity of membranes, ionites with equal macromolecular structure

Characteristics of Ionite Membranes

S/075/60/015/006/006/018 B020/B066

must be selected. For this reason, a styrene-divinyl benzene copolymer was chosen, from which the following ionites were synthesized: cationite СДВ(SDV), cationite СФ(SF), cationite КС(KS), anionite АСД-В(ASD-v), and anionite ACA-c(ASD-s) with the same macromolecular structure, but different ionogenic groups. The properties of these ionites are described (Table 1). To characterize the ionization degree of ionites at different pH, the results of potentiometric titration of the cationites SDV, SF, C BC-1 (SBS-1), and KS are given in Fig. 1, and those of the anionites ASD-v, ASD-s, and $3\Delta 3$ -10 Π (EDE-10P) in Fig. 2. The production of ionite films is described, and their properties are given (Table 2). A comparison of the electrical resistivity of films from SBS-1, SBS-2, and shows that the electrical conductivity of the film is dependent on the concentration of ionogenic groups and its swelling capacity; but this dependence is not specific, and is determined, to a considerable extent, by the structure of macromolecules of the ionite selected. A comparison of properties of the films Π -CEC-2 (P-SBS-2) and Π -CAB (P-SDV) discloses that the dielectric permeability of the membrane may be further increased by changing the structure of the ionite. The dependence of the internal resistivity of ionite films on the degree of Card 2/3

Characteristics of Ionite Membranes

s/075/60/015/006/006/018 B020/B066

ionization of ionogenic groups is investigated, which is simple at equal structures of the ionite, but when studying ionites of different structures the resultant proportionality of this dependence is frequently violated. N. V. Anashkina and V. M. Vinogradova are mentioned. There are 2 figures, 2 tables, and 14 references: 10 Soviet, 1 German, and 3 US.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I.

(Moscow Institute of Chemical Technology imeni D. I.

SUBMITTED: May 5, 1959

Card 3/3

TO THE

14.8114

S/190/61/003/001/006/020 B119/B216

AUTHORS:

Trostyanskaya, Ye. B., Lu Syan'-zhao, Tevlina, A. S.,

Losev, I. P.

TITLE:

Phosphorylation of insoluble polymers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 1, 1961, 41-45

TEXT: The phosphorylation of polymers, according to data given in the chemical literature, results in increased heat resistance and altered softening point and solubility. The polymers acquire the properties of polyelectrolytes. The present work aims at establishing optimum conditions for the phosphorylation of insoluble polymers containing aromatic and chloro-alkyl groups. Phosphorylation was carried out on copolymers of styrene and divinyl benzene (A) and on a chloromethylated copolymer of styrene and divinyl benzene (B) (both in granular form). The polymers were maximally swelled in PCl3 and then heated to boiling point after addition of dry AlCl3. The highest degree of phosphorylation in the case of A, i.e. 93% (calculated for initial polymer), was attained

Card 1/3

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Phosphorylation of insoluble polymers

S/190/61/003/001/006/020 B119/B216

by swelling (180%) at $70 - 75^{\circ}C$ for 10 hr reaction time in presence of 2 AlCl3 to each styrene unit. The product obtained was hydrolyzed by washing with water. Potentiometric titration of the hydrolyzate with NaOH yielded an acid number of 5.5 mg eq/g. The shape of the curve indicates a weak monobasic acid (accordingly, the P content of the copolymer was 17.1%). The polymeric phosphinous acid was oxidized by treatment with 25% nitric acid at 60°C for 8 hr. 10.2 mg eq/g NaOH were used up in the potentiometric titration of the product. This polyelectrolyte was designated as ionite $C\Psi$ -1 (SF-1). The shape of the curve reflects a dibasic acid. In all, 92.7% of the polymeric phosphinous acid was oxidized to phosphinic acid. (The former swells 20% in water, 40% in 0.3 N HCl, 160% in 0.3 N NaOH and the latter 135% in water, 85% in 0.3 N HCl and 210% in 0.3 N NaOH). Phosphorylation of B under the same conditions yielded a reaction product containing 11.95% P corresponding to a 79% transformation. In 0.3 N HCl the hydrolyzate swelled up to 45%, and up to 110% in 0.3 N NaOH. The acid number was 6.2 mg eq/g, corresponding to 79% phosphinic acid (with respect to the monomeric vinyl benzyl chloride units in which an H atom is substituted

Card 2/3

Phosphorylation of insoluble polymers

S/190/61/003/001/006/020 B119/B216

by reaction with PCl3) and 57% phosphinous acid (with respect to monomeric styrene units in which one of the H atoms of the aromatic nucleus is substituted). After nitric-acid oxidation the acid number increased to 7.5 mg eq/g denoting quantitative transformation of the phosphinous acid groups. This polyelectrolyte was designated as ionite $C\Phi$ -2 (SF-2). The product swells up to 50% in water, 50% in 0.3 N HCl, 120% in 0.3 N NaOH. The dissociation constants of the polymeric acids obtained were calculated from the potentiometric titration data: pK1 is 3.4 for SF-1 and 4.9 for SF-2; pK₂ is -7.1 for SF-1 and -8.0 for SF-2. There are 3 figures and 17 references: 9 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I.

Mendeleyeva (Moscow Institute of Chemical Technology imeni

SUBMITTED:

May 27, 1960

Card 3/3

TROSTYANSKAYA, Ye.B.; MAKAROVA, S.B.; TEVLINA, A.S.

Insoluble polymeric quaternary ammonium bases. Vysokom.soed. 3
no.9:1358-1363 S 61. (MIRA 14:9)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendel-eyeva.

(Amination) (Polymers)

Using ion exchangers for a simultaneous extraction of cations and anions from solutions. Plast_massy no.11:15-16 '61.

(Ion exchange resins)

VERKHOVSKAYA, Z.N.; VYSTAVKINA, L.B.; KLIMENKO, M.Ya.; TEVLINA, A.S.;

TROSTYANSKAYA, Ye.B.

Coarse-grained ion exchangers as catalysts of the hydration of olefins and dehydration of alcohols. Khim.prom. no.4:248-250 Ap '62.

(MIRA 15:5)

(Ion exchange resins) (Hydration) (Dehydration (Chemistry))

S/190/63/005/001/006/020 B117/B186

AUTHORS:

Trostyanskaya, Ye. B., Tevlina, A. S.

TITLE:

Synthesis of ion exchange films by graft copolymerization

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 5, no. 1, 1963, 44-48

TEXT: An improved method of producing high-elastic ion exchange films with limited swelling, in which the polyelectrolyte is distributed as a fine powder in the apolar elastomer, is described. This method is based on a proper choice of the system film + monomer (+ solvent) so as to guarantee maximum swelling in the monomer or its solution. Methacrylic monomers. Limitedly swelling films (100-200%) were produced from polyvinyl solid after treatment (12 hrs, 45-50°C) with an aqueous solution of glyoxal (3%), Na₂SO₄ (20%), and H₂SO₄ (10%). For graft copolymerization, peroxide or hydroperoxide management of the state o

peroxide or hydroperoxide were added to the aqueous monomer solution. 25-33.6% by weight of polymer was grafted, corresponding to a concentration of 1.79-4.1 mg·eq/g ionogenic groups. The concentration of such groups

Synthesis of ion exchange films ...

s/190/63/005/001/006/020 B117/B186

can be increased by 25-28% by repeated graft copolymerization under the same conditions. Although the graft copolymerization is always accompanied by homopolymerization of the monomer, the yield of homopolymer was only 17-20%. By grafting polymeric acids, the films remained outwardly unchanged but lost some of their elasticity. Grafting of polymethyl vinyl pyridine made the films dull but more elastic. The reduction of swelling in water, observed after grafting, was explained by formation of additional crosslinks between macromolecules of polyvinyl alcohol. With respect to electrical conductivity and transference number, the films obtained exceed the heterogeneous ion exchange films applicable in electric ion exchange apparatus. There are 3 figures and 3 tables.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

SUBMITTED:

July 14, 1961

Card 2/2

esti ... ACCESSION NR: AT4042424 5/0000/63/000/000/0068/0070 AUTHOR: Tevlina, A. S., Lindeman, Ya. S., Losev, I. P. etable, The ar outlined by to come TITLE: Synthesis and investigation of ion exchange membranes based on polystyrenesulfonic acid and polyvinyl alcohol acid and polyvinyl alcohol SOURCE: Respublikanskoye nauchno-tekhnicheskoye soveshchaniye po jonnomu obmenu. Alma-Ata, 1962. Teoriya i praktika ionnogo obmena (Theory and practice of ion exchange); trudy* soveshchaniya. Alma-Ata, Izd-vo An KazSSR, 1963, 68-70 TOPIC, TAGS: ion exchange resin, ion exchange membrane, copolymer film, polystyrene sulfonic acid, sulfuration, polyvinyl alcohol, polymer film swelling, polymer film electrical ABSTRACT: The authors prepared homogeneous ion exchange membranes by combining polystyrenesulfonic acid (sulfurated to 94% of theoretical capacity) with a calculated amount of polyvinyl alcohol, drying thin layers of the poured solution at room temperature and heating the films at 120C for two hours in a thermostat. The coefficient of swelling and electrical resistivity of the films were found to decrease with an increase in the proportion Card 1/2

ACCESSION NR: AT4042424

of polystyrenesulfonic acid in the film. A spectral analysis of the materials showed a generally identical pattern for polyvinyl alcohol and polystyrenesulfonic acid and a somewhat different pattern for the films. The firm union between the polyelectrolyte and the polyvinyl alcohol is thought to be linked with a new bond between SO₃H groups of the former and OH groups of the latter. To prepare the sulfonic acid used in the study, polystyrene having molecular weights of 30000, 12000, 10000 and 4000 was reacted with SO₃ in a solution of dichloroethane. Orig. art. has: 2 tables and 1 chemical equation.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemistry and Technology)

SUBMITTED: 13Nov63

ENCL: 00

SUB CODE: OC

NO REF SOV: 000

OTHER: 000

ACCESSION NR: AT4042425

S/0000/63/000/000/0071/0074

AUTHOR: Tevlina, A. S., Kotlyarova, S. V., Losev, I. P.

TITLE: Homogeneous ion exchange membranes based on grafted polyethylene copolymers

SOURCE: Respublikanstoye nauchno-tekhnicheskoye soveshchaniye po ionnomu obmemu. Alma-Ata, 1962. Teoriya i praktika ionnogo obmena (Theory and practice of ion exchange); trudy* soveshchaniya. Alma-Ata, Izd-vo AN KazSSR, 1963, 71-74

TOPIC TAGS: ion exchange resin, ion exchange membrane, polyethylene, grafted copolymer, polyethylene copolymer, polystyrene copolymer, divinylbenzene copolymer, polymer film,

ABSTRACT: A product with up to 75% polystyrene was obtained by the method of styrene-to-polyethylene copolymerization in the presence of peroxide or hydroperoxide initiators, used in the synthesis of homogeneous polyethylene membranes. The three stages of the process — swelling of the polyethylene in the styrene monomer, polymerization of the styrene in the film, and sulfurization — were investigated with respect to temperature and duration, and the physico-mechanical characteristics of the films were examined. To

Card 1/2

ACCESSION NR: AT4042425

enhance the mechanical properties and thermal resistance, 3% divinylbenzene was added to the reactants. By sulfurizing, phosphorylating or chloromethylating with subsequent substitution of amino radicals in the grafted polyethylene film, cation and anion exchange membranes were prepared with good physical-chemical properties, low electrical resistance and high selectivity. In separate studies, the feasibility of grafting polymerization of the di- β , β -chloroethylester of vinylphosphinic acid to a polyethylene film (10 hrs. at 55C followed by saponification) was established. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemistry and Technology)

SUBMITTED: 13Nov63

ENCL: '00

SUB CODE: OC

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OTHER: 000

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TROSTYANSKAYA, Ye.B.; TEVLINA, A.S.; NAUMOVA, F.A.

Suspension copolymerization of styrene with divinylbenzene in the presence of telegen. Vysokom.soed. 5 no.8:1240-1244 Ag '63. (MIRA 16:9) (Styrene) (Benzene) (Polymerization)

TEVLINA, A.S.; TROSTYANSKAYA, Ye.B.

Synthesis of soluble polyelectrolytes by sulfonation of polystyrene. Vysokom.soed. 5 no.8:1178-1182 Ag '63. (MIRA 16:9)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva. (Styrene polymers) (Sulfonation) (Electrolytes)

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APTHOLOUGH, A.R. hatharras, S. o. Joseph Co. Comments

TITLE: Homogeneous ion exhange membranes based on grafted copolymers of polyethylene

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers), sbornik states. Mescow (info Nagara 1991) 189

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ABSTRACT The graft copposition relation of stores of the presence of the presence of premium to the presence of premium to the presence of the company of th

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L 19757-65

ACCESSION NR: AT4049858

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiv institut im. D. I. Mendeleyeva

(Moscow Chemical-Technological Institute)

SUBMITTED: 24Nov62

ENCL: 01

SUB CODE: MT, OC

NO REF SOV: 003

OTHER: 000

Card 2/3

L 19757-

ACCESSION NR: AT4049858

ENCLOSURE: 01

Table 1. Physical properties of the for exchange membranes obtained on the sufforation of a phospic relation and the bijection of a graph of the phospic of the contract of the phospic of the contract of the

	Thermal stability (°C)			(transfer number)	or basi-		elongation
(a)		1.08		ù ak		: ***	15
(p)	140	1.15	1.5	9.97	4. *	127	29
(c)		1 10	0 3	0.97	2 :	146	3.5

Card 3/3

ACCESSION NR: AP4039941

8/0191/64/000/006/0010/0012

AUTHOR: Tevlina, A. S.; Lindeman, Ya. S.; Losev, I. P. (Deceased)

TITIE: Synthesis and investigation of ionite membranes based on polystyrene

SOURCE: Plasticheskiye massy*, no. 6, 1964, 10-12

TOPIC TAGS: ionite, ionite membrane, synthesis, polystyrenesulfonic acid polyvinylalcohol mixture, polystyrene sulfonation, water resistance, IR spectra, water

ABSTRACT: The possibility of obtaining ionite membranes (suitable for instance for electrochemical desalting of water) by combining up to 60 mol% of water soluble polystyrenesulfonic acid (PSSA) with polyvinylalcohol (PVA) was established. Polystyrene was sulfonated with 803 in dichlorethene solution; a relatively low molecular weight polystyrene was used since the degree of sulfonation increases with decrease in molecular weight. A homogeneous solution of the PSSA and PVA was prepared and cast to form a film which was dried at 1200 for 2 hours. The water resistance of the product membrane is explained by the formation of a chemical

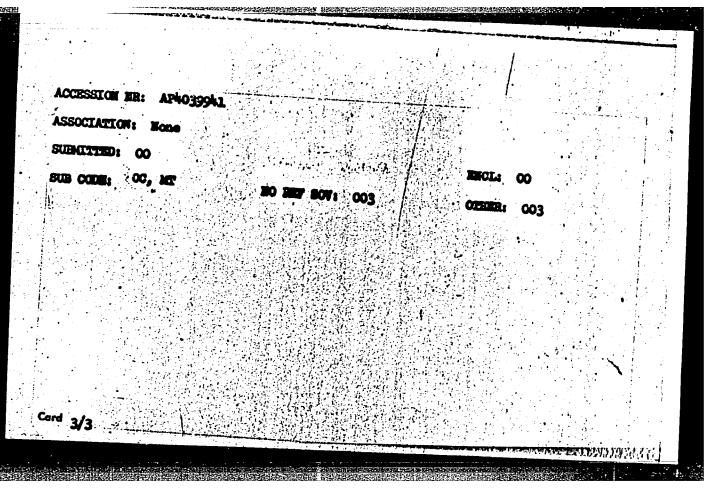
ACCESSION NR: AP4039941

bond between the 803H group of the polyelectrolyte and the OH of the PVA:

The IR spectra of PVA, PSSA and of the product are shown. The 1650 cm⁻¹ band (free OH group) seen in the spectra of PVA and PSSA is absent in the membrane spectrum. This is explained by the possible hydrogen bond fromation between the SO₃H and OH groups or ether bonds between the PVA hydroxyl groups. The low intensity of the 1740 cm⁻¹ band in the PVA spectrum indicated the absence of socityl groups. Orig.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520001-5



ACCESSION NR: AP4042193

S/0190/64/006/007/1327/1329

AUTHOR: Tevlina, A. S., Kotlyarova, S. V., Agapova, E. P.

TITLE: Phosphorylation of the grafted copolymer of polypropylene and polystyrene

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1327-1329

TOPIC TAGS: grafting, grafted copolymer, ion exchange membrane, phosphorylation, polystyrene, polypropylene, polypropylene polystyrene copolymer, polymer film, polymer electrical property, phosphorus trichloride

ABSTRACT: Preliminary studies showed that ion-exchange membranes can be obtained by grafting polystyrene on polypropylene and the subsequent phosphorylation of the polystyrene side-chains. The mechanism of grafted copolymerization was then studied in the presence of initiators such as benzoyl peroxide in order to establish the optimal reaction conditions for obtaining a more uniform distribution of grafted polystyrene chains in the film. Grafting was carried out at the site of tertiary carbon atoms. The best polymer for grafting was found to be polypropylene, with an initial film thickness of 90-95 μ , specific gravity = 0.90, M= 3.1, tensile strength = 350 kg/cm², elongation at break 390%, and melting point 164-168C.

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ACCESSION NR: AP4042193

The reaction conditions are described. Tabulated data concerning the correlation between the degree of phosphorylation and the reaction time show that the best results were obtained by phosphorylation with PCl₃ and AlCl₃ for 12 hours at 65C. The electrochémical properties of the ion-exchange membranes formed were improved by oxidation of the phosphinous acid groups to phosphinic acid groups. Ion-exchange films subjected to oxidation had not only a higher acid number but also a lower electrical resistance. The best electrochemical properties were shown by membranes containing 5% phosphorus. Orig. art. has: 2 tables

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Institute of Chemical Technology)

SUBMITTED: 10Sep63

SUB CODE: OC

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ACCESSION NR: AP4049159 S/0.90/64/006/011/2073/2077

AUTHOR: Tevlina, A. S.; Kotlyarova, S. V.

TITLE: Synthesis of phosphorus-containing homogeneous cation-exchange membranes on the basis of a polyethylene-polystyrene graft copolymer

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 11, 1964, 2073-2077

TOPIC TAGS: graft polymer, polyethylene, polystyrene, cation exchange rosin, polymer phosphorylation, surface resistance, exchange rosin selectionity, tensile strength to hexchange thin:

ABSTRACT: Turbidimetric, infrared and physicomechanical studies on the products of the grafting of polystyrene onto polyeth lane shows to a constraint and a second product and the grafting of polystyrene onto polyeth lane shows to a constraint and the grafting of polystyrene onto polyeth lane shows to a constraint and the grafting of polystyrene onto polyeth lane shows to a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene onto polyeth lane shows to be a constraint and the grafting of polystyrene on the grafting of polystyrene of the grafting of polystyrene on the grafting

For the graft films, the infrared absorption spectra showed bands in the region of 550 cm⁻¹ characteristic for benzene rings. The intensity of the characteristic to benzene rings. The intensity of the characteristic as a conjunction of the film of the characteristic as a conjunction of the film of the characteristic as a conjunction of the characteristic and the characteristic as a conjunction of the characteristic and the charact

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ACCESSION NR: AP4049159

eliminates the formation of small blisters on the film surface; increases the tensile strength and reduces the reaction time. An increase in the DVB content to 5% and more decreases the effectiveness of grafting, while 4% DVB content does the reaghness of the mim. But affects the reaction time very slighted conducting the strength of the reaction time very slighted conducting the strength of the obtained make the strength of t

Card 2/3

ACCESSION NEC AP4049159

ASSOCIATION: Moskovskiy khimiko-tokhnologicheskiy instit tim. D. I. Mendeleyeva

(Museow Chemical Engineering Institute)

SUBMITTED: 27Jan64

ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 003

OTHER: 000

3/3 Card

TEVLINA, A.S.; KOTLYAROVA, S.V.

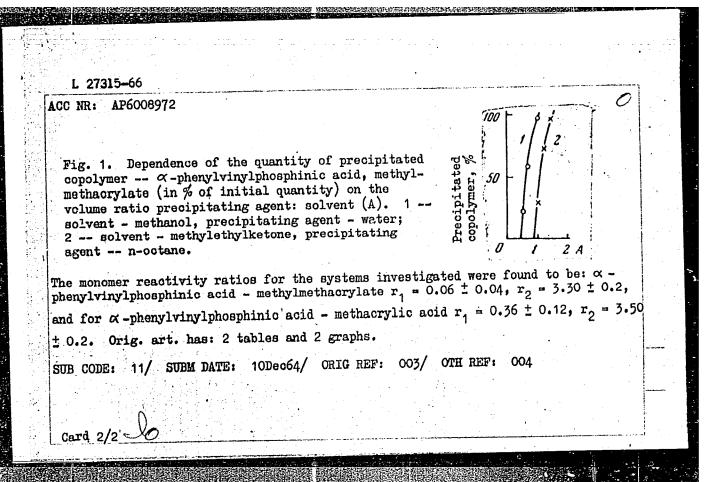
Synthesis of phosphorus-containing homogenous cation— changing membranes on the basis of a polyethylene-polystyrene graft copolymer. Vysokom. soed. 6 no.11:2073-2077 N '64 (MIRA 18:2)

1. Moskevskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

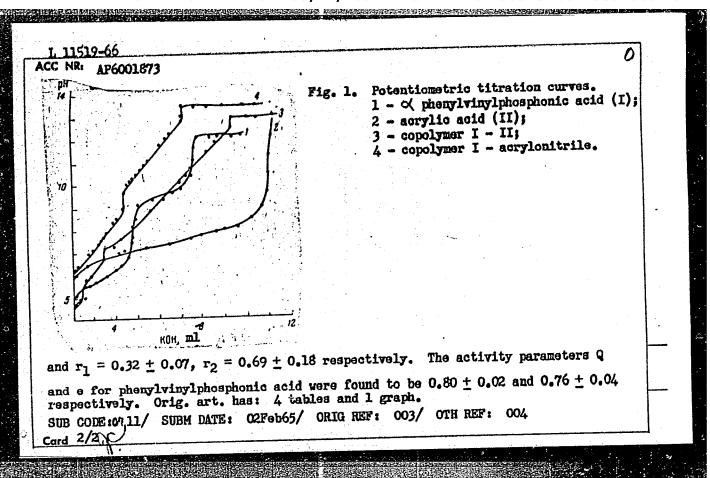
L 8863-66 Mar(m)/erc/esr(j)/esc(m)/r HPL DS/44/RM SOURCE CODE: ACC NR UR/0190/65/007/010/1818/182 AUTHOR: Kolesnikov, G. S.; Tevlina, ORG: Moscow Chemical Technological Institute im. Mendeloyea 4177 (Moskovskiy khimiko-tekhnologicheskiy institut) TITLE: Carbon chain polymers and copolymers. Report No. 56.
Polymerization of alpha-phenylvinylphosphinic acid/in the presence of tetravalent cerium ions and polyvinyl sleohol 7 SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1818-1821 TOPIC TAGS: polymerization, copolymerization, phosphinic acid, block copolymer, polymer structure, chelate compound, ion exchange resin ABSTRACT: Conditions were found for polymerizing alpha-phenylvinylphosphinic acid to make polymers of interest in ion exchange? and for complexing polyvalent metal ions. Polymerization was effected in the présence of the polyvinyl alcohol-cerium ammonium nitrate oxidationreduction system, then more tetravalent cerium ion than necessary to oxidize all the -CHOH of the polyvinyl alcohol was added. The formed graft copolymor/gave a polychelete with the tetravelent cerium ion. Card 1/2 UDC: 66.095.26+678.86 المربي والمراجع والمراجع والمراجع والمراجع and a single of the state of th

The product swells slightly in water, is insoluble in organic solvents and in aqueous solutions of mineral scids and alkalies, is stable to 200-250°C, and has an ion exchange capacity of 3.6-3.9 mg.equiv/gm. Based on additional spectral data, a natwork structure is proposed for the polychelate. Orig. art. has: 1 figure, 5 equations and formulas. SUB CODE: CC, KT/ SUBM DATE: 27Eov64/ ORIG REF: 001/ OTH REF:	
200-250°C, and has an ion exchange capacity of 3.6-3.9 mg.equiv/gm. Based on additional spectral data, a network structure is proposed for polychelate. Orig. art. has: 1 figure, 5 equations and formulas.	
SUB CODE: OG, RT/ SURM DATE: 27Eov54/ ORIG REF: 001/ OTH REF:	
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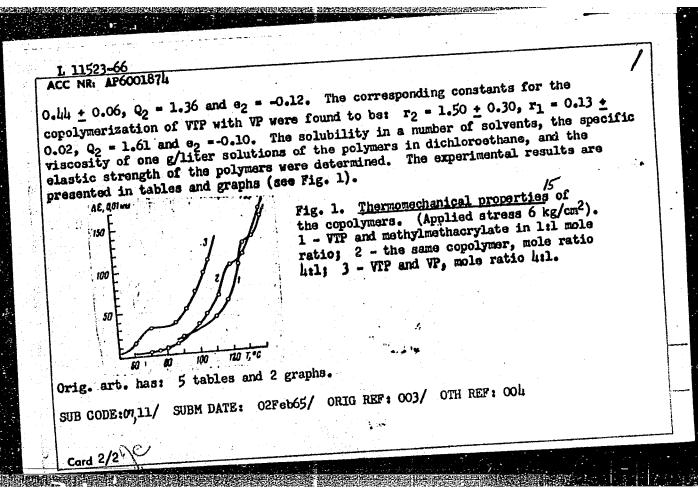
L 27315-66 EWT(m)/EWP(j)/T IJP(c) WW/RM ACC NR: AP6008972 (A) SOURCE CODE: UR/0190/65/007/011/1913/1915 AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Alovitdinov, A. B. ORG: Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy Khimiko-tekhnologicheskiy institut) TITLE: Copolymerization of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid (57th communication in the series: Carbocyclic polymers and copolymers) SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1913-1915 TOPIC TAGS: copolymer, methyl methacrylate, methanol, polymerization ABSTRACT: This investigation was conducted to extend the work of G. S. Kolesnikov, A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was desired to determine the molecular composition and the monomer reactivity ratios for desired to determine the molecular composition and the monomer reactivity ratios for the copolymerization of α-phenylvinylphosphonic acid - methylmethacrylate and α-the copolymerization of α-phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid		FWIT(m)/FWP(i)/T IJP(c)	WH/RM	
AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Alovitdinov, A. B. ORG: Moscow institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy) khimiko-tekhnologioheskiy institut) TITLE: Copolymerization of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid /57th communication in the series: Carbocyclic polymers and copolymers SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1913-1915 SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1913-1915 TOPIC TAGS: copolymer, methyl methacrylate, methanol, polymerization ABSTRACT: This investigation was conducted to extend the work of G. S. Kolesnikov, A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was the copolymerization of α-phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at the presence of 1 mol.% benzoyl peroxide in an atmosphere of nit	L 27315-66	009972 (A)		
CRG: Moscow institute of Chemical Technology im. B. 1. Mendetsyov Technologic Relation of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid /57th communication in the series: Carbocyclic polymers and copolymers of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid /57th communication in the series: Carbocyclic polymers and copolymers. SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1913-1915 TOPIC TAGS: copolymer, methyl methacrylate, methanol, polymerization ABSTRACT: This investigation was conducted to extend the work of G. S. Kolesnikov, A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was desired to determine the molecular composition and the monomer reactivity ratios for desired to determine the molecular composition and the monomer reactivity ratios for the copolymerization of α-phenylvinylphosphonic acid - methylmethacrylate and α-the copolymerization of α-phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at a phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at a phenylvinylphosp	ACC NR: APO	000912	A C. Alovitdinov. A. B. 34	
CRG: Moscow institute of Chemical Technology im. B. 1. Mendetsyov Technologic Relation of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid /57th communication in the series: Carbocyclic polymers and copolymers of α-phenylvinylphosphinic acid with methyl methacrylate and methacrylic acid /57th communication in the series: Carbocyclic polymers and copolymers. SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1913-1915 TOPIC TAGS: copolymer, methyl methacrylate, methanol, polymerization ABSTRACT: This investigation was conducted to extend the work of G. S. Kolesnikov, A. S. Tevlina, and A. B. Alovitdinov (Vysokomolek. soyed., 7, 1818, 1965). It was desired to determine the molecular composition and the monomer reactivity ratios for desired to determine the molecular composition and the monomer reactivity ratios for the copolymerization of α-phenylvinylphosphonic acid - methylmethacrylate and α-the copolymerization of α-phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at a phenylvinylphosphonic acid - methacrylic acid. The reactions were carried out at a phenylvinylphosp	ATTHORS: KO	lesnikov, G. S.; Tevlina, A	A. Dij Alovivania B	
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AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Novikova, S. P.; Sividova, S. N. 49 ORG: Moscow Chemical-Technological Institute im. D. I. Mendeleyev (Moskovskiy) Debimiko-teknologicheskiy institut)	
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SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2160-2163	
TOPIC TAGS: polymer, polymerization, polymerization rate, polymerization kinetics, copolymer, copolymerization, acrylic acid, acrylic plastic, ploophoric acid with acrylic acid ABSTRACT: The copolymerization of <pre></pre>	ţ.
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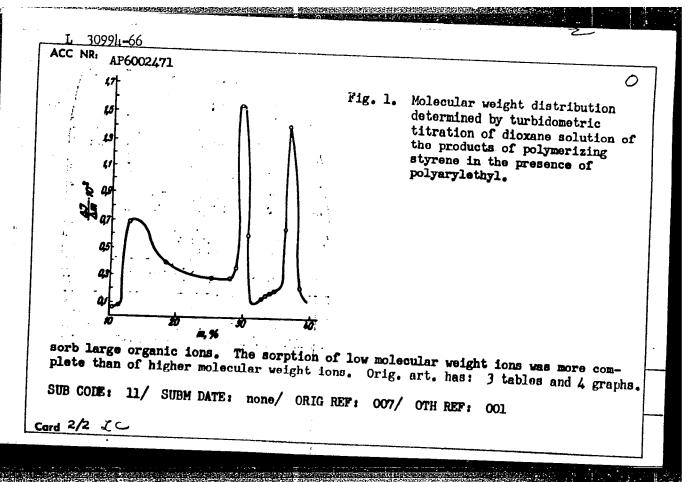
A.	A 1. 11523-66 EWT(m)/EWP(J)/T RPL WW/RM SOURCE CODE: UR/O190/65/007/012/216h/2167
Section for the	ACC NR: AF6001874 AUTHORS: Sividova, S. N.; Avetisyan, A. A.; Kolosnikov, G. S.; Sidel'kovskaya, F.
	P.; Teviina, A. S.
	ORG: Moscow Chemical-Technological Institute for Organic Chemistry, AN SSSR (Institut tekhnologicheskiy institut); Institute for Organic Chemistry, AN SSSR (Institut organicheskoy khimii AN SSSR)
Adales & Linkship on the	TITLE: Copolymerization of N-vinylthiopyrrolidone with methylmethacrylate and N-vinylpyrrolidons. 759th communication from the series, Carbon chain polymers and copolymers.
	SOURCE: Vysokomolekulyernyye soyedineniya, v. 7, no. 12, 1965, 2164-2167
Ver etternessen i	TOPIC TAGS: polymer, polymerisation, copolymerisation, methylmethacrylate, polymerization kinetics
	ABSTRACT: Data on the monomer N-vinylthiopyrrolidone (VTP), recently synthesized by M. F. Shostakovskiy, F. P. Sidel'kovskaya, M. G. Zelenskaya, A. A. Avetisyan, and B. V. Lopatin (Dokl, AN SSSR, 153, 1089, 1963), were extended by copolymerizing (VTP) with methylmethacrylate and N-vinylpyrrolidone (VP). The copolymerization was carried out at 60C in presence of 1 mole % of initiator, and the copolymerization constants of VTP with methyl methacrylate were found to be: r ₂ = 1.72 + 0.09 and r ₁ =
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L 7888-66 EWT(m)/EPF(c)/EWP(j) ACC NR: AP5025043 SOURCE CODE: UR/0286/65/000/016/0085/0085 AUTHORS: Kolesnikov, G. Tevlina. Levin, B. B.; Trunina, G. Novikova, S. P.; Alovitdinov ORG: none TITLE: Method for obtaining poly- ~-phenylvinylphosphonic acid. Class 39, No. 173955 Zannounced by Moscow Order of Lenin Chemico-technological Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 85 SOURCE: TOPIC TAGS: phenylvinylphosphonic acid, polymer, organic phosphorus compound, cerium compound, alcohol ABSTRACT: This Author Certificate presents a method for obtaining poly- <- phenylvinylphosphonic acid. The <-phenylvinylphosphonic acid is polymerized in an aqueous solution in the presence of redox initiators such as salts of tetravalent SUB CODE: 07/ SUBM DATE: 08May64 Card 1/1 UDC: 678.746.87

EWT(m)/ETC(f)/EWF(j)/T/EWG(m) RPL 109911-66 ACC NR. AP6002471 DS/WW/RM SOURCE CODE: UR/0191/66/000/001/0006/0008 AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Chuchin, A. Ye.; Baraboshkina, I. A. ORG: none TITLE: Graft copolymers of styrene-divinylbenzene-polyarylene ethyl and styrene-SOURCE: Plasticheskiye massy, no. 1, 1966, 6-8 TOPIC TAGS: graft copolymer, chain reaction, polymerization, polymer, polymer ABSTRACT: Graft copolymerization divinylbenzene-polyarylethyl hydroperoxide were studied to investigate the possistyrene-divinylbenzene-polyaryl-ethyl and styrenebility of synthesizing large-pore sulfo-cation-exchangers/on the basis of threedimensional graft-copolymers. The copolymers were synthesized by two methods: 1) by grafting styrene to a polymeric hydroperoxide as described by the authors (Vysokomolek, soyed., 7, 10, 1753, 1965), and 2) by chain transfer via the mobile hydrogen atom of polyarylene ethyl in the presence of a free radical initiator. The degree of swelling in benzene solution, the molecular weight distribution, the ion absorption capacity, and the amount of hydroperoxide in the synthesized polymers were determined. The experimental results are presented in graphs and tables (see Fig. 1). It was found that the synthesized sulfo-cation-exchangers were able to Card 1/2 UDC: 678.746.22-134.6



L 20807-66 EWP(j)/EWT(m)/ETC(f)/EWG(m)/TRM/DS/WW ACC NR: AP6005946 SOURCE CODE: UR/0191/66/000/002/0012/0013 AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Alovitdinov, A. B. ORG: none TITLE: Synthesis of ion exchange resind by copolymerizing & -phenylvinylphosphinic acid with a -methylmethacrylate and methacrylic acid by means of suspension polymerization SOURCE: Plasticheskiye massy, no. 2, 1966, 12-13 TOPIC TAGS: copolymerization, ion exchange resin, methacrylate plastic, phosphinic acid, methylmethacrylate ABSTRACT: Suspension copolymerization of α -phenylvinylphosphinic acid (I) with methylmethacrylate (II) and with methacrylic acid (III) has been investigated in the presence and absence of divinyl-benzene (IV), at varying ratios of reagents, to obtain optimal conditions for production of copolymer with the maximal number of I residues. The obtained results were applied to the synthesis of cationic exchange resins. Optimal amount of IV for reaction of I and II was 2% by weight, and for reaction of I with III -- 8% by weight of the total reaction mixture. Synthesis of ion exchange resins with the use of monomers containing ionogenic groups assures Card 1/2 WC1 661.183.123

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L 46995-66 EWP(j)/EMT(m)/T RM/DS/WW ACC NR: AP6027276 SOURCE CODE: UR/0191/66/000/008/0021/0023 AUTHOR: Alovitdinov, A. B.; Tevlina, A. S.; Kolesnikov, G. S. ORG: none TITLE: Polyelectrolytes based on copolymers of a-phenylvinylphosphonic acid SOURCE: Plasticheskiye massy, no. 8, 1966, 21-23 TOPIC TAGS: ion exchange resin, phosphonic acid, vinyl compound, copolymer ABSTRACT: Polyelectrolyte ion exchangers formed by the copolymerization of a-phenylvinylphosphonic acid (c-PVPA) with vinyl monomers are used for separating ions of polyvalent metals. The strong bonding between these ions and the phosphonic and phosphonous acid groups is due to chelation. The paper gives the results of a potentiometric titration of polyelectrolyte ion exchangers synthesized by copolymerization of a-PVPA with vinyl monomors having no ionogenic groups. The curves obtained (pH vs. KON added) showed two inflections corresponding to the degrees of dissociation of monomeric a-PVPA. From these curves, the "apparent" pk values of the active groups of the ion exchangers were determined and found to coincide with the pk of the monomeric acid. The carboxyl groups of ion exchangers synthesized by copolymerization of α -PVPA with methacrylic and acrylic acids dissociate at pH 4-5.5. Potentiometric titration curves of four samples of ion exchangers (AF-40, MAF-40, MMF-0,40 and SF-0,50) were recorded in the presence of 0.1 N NaCl and in its absence; in the presence of NaCl, 1/2 UDC: 678.746.872-13:661.183.123

ACC NR: AP6027276

they differed substantially from each other, showing distinct working intervals of the various groups of the polyvalent cation exchanger. It is shown that cation exchangers containing -COOH groups in addition to -P(O)(OH)2 groups have a greater and 2 tables.

SUB CODE: 07/ SUBM DATE: none/ CRIG REF: 005/ OTH REF: 006

45183 3/882/62/000/002/050/100 A057/A126

AUTHORS:

Losev, I.P., Trostyanskaya, Ye.B., Tevlina, A.S.

TITLE:

A method for the production of ion exchange, resins

SOURCE:

Sbornik izobreteniy; plastmassy i sinteticheskiye smoly. no. 2. Kom. po delam izobr. i otkrytiy. Moscow, TsBTI, 1962, 28 - 29 [Author's certificate no. 131081, cl. 39b, 2201 (appl. no. 643687 of

November 9, 1959)

TEXT: It is suggested to soak granules of ion exchange resins on the basis of styrene co-polymers of the type ACM (ASM), or CBI (SVD) with non-saturated amines, for instance methylvinylpyridine, or with non-saturated acids, for instance vinylsulfonic acid, and treat them afterwards with dimethylformamide and methyl iodide. 20 g cation exchange resin type CBI -3 (SVD-3) with a swelling capacity in water of 120% and an absorption capacity related to the Ca ion from a CaCl2 solution of 4.4 mg equiv/g is treated with 100 g 20% NaCl solution, washed with distilled water until a negative chloride reaction occurs in the wash water, and is dried at 80°C to a residual humidity of 10 - 20%. The cation

Card 1/2

A method for the production of ion exchange resins

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> s/882/62/000/002/050/100 A057/A126

exchange resin is left afterwards for 4 h in a solution prepared from 100 g 60 -65% sodium vinylsulfonate, 4 g (0.4%) ammonium persulfate, and 0.66 g (0.66%) sodium bisulfite. The cation exchange resin is then filtered off, held 4 h at room temperature, 4 h at 80°C regenerated with a HCl solution, and washed with distilled water. The swelling capacity of the obtained cation exchange resin is 180%, and the capacity related to sodium ion from a NaOH solution is 8 mg equiv/ /g. The patent allows an increase of the capacity of ion exchange resins.

[Abstracter's note: Complete translation]

Card 2/2

TevLINA 17 (2)

SOV/19-59-2-71/600

AUTHORS:

Losev, I. P., Laskorin, B. N., Trostyanskaya, Ye. B., and

TITLE:

A Method of Concentrating and Separating Streptomycin

PERIODICAL:

Byulleten' izobreteniy, 1959, Nr 2, p 22 (USSR)

ABSTRACT:

Class 12d, 25₀₁, Nr 117525 (422979 of 14 Feb 1950)

Submitted to the Gostekhnika, USSR. A method of concentrating and separating streptomycin from diluted solutions with the use of absorbing agents in the form of synthetic cationexchange resins, such as "SBS" and "SM" with a 20%-solution of sodium chloride. sorbents treated

Card 1/1

5(1)

SOV/19-59-2-300/600

AUTHORS:

Losev, I.P., Trostyanskaya, Ye.B., and Tevlina, A.S.

TITLE:

A Method of Obtaining Cation-Exchanging-Sorbents

PERIODICAL:

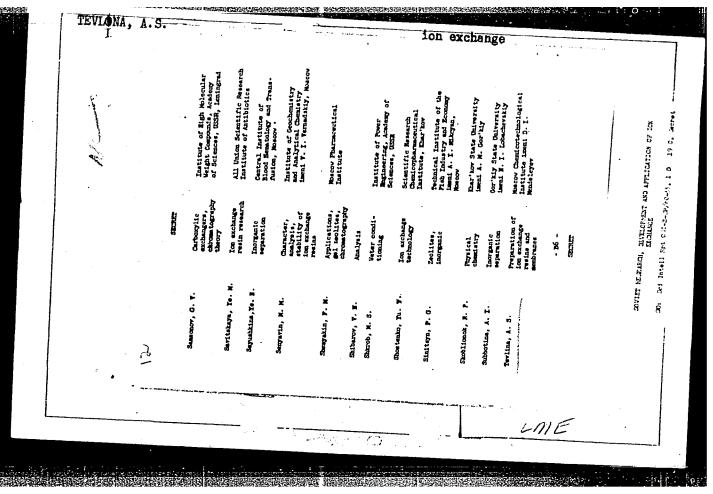
Byulleten' izobreteniy, 1959, Nr 2, p G6 (USSR)

ABSTRACT :

Class 30b, 2201. Nr 117517 (365958 of 3 December 1948). Submitted to the Gostekhnika, USSR. The method consists in obtaining cation-exchanging sorbents by the sulfation of synthetic high-molecular compounds. Copolymer of butadiene with styrene is used for the high-molecular compound to be sulfated.

Card 1/1

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5(3)

SOV/19-59-4-170/317

AUTHORS:

TEXUND, A.T.

Losev, I.P., Trostyanskaya, Ye.B., and Tevlina, A.S.

TITLE:

A Method of Obtaining a Cation-Exchanging Sorbent

PERIODICAL:

Byulleten' izobreteniy, 1959, Nr 4, p 37 (USSR)

ABSTRACT:

Class 39c, 2. Nr 118207 (425201 of 7 July 1950). Submitted to the State Committee at the USSR Council of Ministers for the Introduction of Advanced Technique into the National Economy. A method as in title, in which the sorbent is obtained by condensing acid phosphate of phenol ethers with formaldehyde at 80°C.

Card 1/1

S/882/62/000/002/073/100 A004/A126

AUTHORS:

Losev, I.P., Trostyanskaya, Ye.B., Tevlina, A.S., Nefedova, G.Z.

TITLE:

A method of producing insoluble polymer products

SOURCE:

Sbornik izobreteniy; plastmassy i sinteticheskiye smoly. no. 2. Kom. po delam isobr. i otkrytiy. Moscow, TsBTI, 1962, 39 [Author's Certificate no. 133221, cl. 39b, 2201 (appl. no. 628967 of May 21, 1959)]

TEXT: Insoluble polymer products on the base of styrene and divinyl benzene copolymers are used as selective ion absorbers from electrolyte mixtures. The method of producing insoluble polymers is characterized by that the process is performed according to the following schedule: granulation copolymerization; chloromethylation of the copolymer swollen in chloroethane; amination of the swollen chloromethylated copolymer in dioxane triethanolamine at 100°C for 8 h; oxidation of the obtained amine swollen in dioxane by heating with nitric acid (specific gravity 1.34) at 80 - 100°C for 4 h; treatment of the obtained product with potassium iodide at 94°C for 3 h and second oxidation with a 56% solution of

Card 1/2

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A method of producing insoluble polymer products

nitric acid at 95 - 100°C for 4 h. The insoluble complexes obtained by this to 71%.

[Abstracter's note: Complete translation]

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S/019/60/000/021/077/145 A152/A029

AUTHORS:

Losev, I.P.; Trostyanskaya, Ye.B.; Tevlina, A.S.; Nefedova, G.

TITLE:

A Method for Obtaining Insoluble Polymeric Products

PERIODICAL:

Byulleten' izobreteniy, 1960, No. 21, p. 47

TEXT: Class 39b, 2201. No. 133221 (628967/23 of May 21, 1959). This method is based on the use of styrene and divinylbenzene copolymers. It has the following special feature: in order to use the above products as selective absorbers of ions from electrolyte mixtures, styrene and divinylbenzene are subjected to a synthesis with esters of unsaturated acids and polyatomic alcohols, of nitrilotricarboxylic acids or triaminotrialkylamines.



Card 1/1

S/019/61/000/002/044/111 A156/A027

AUTHORS: Losev, I.P., Trostyanskaya, Ye.B., and Tevlina, A.S.

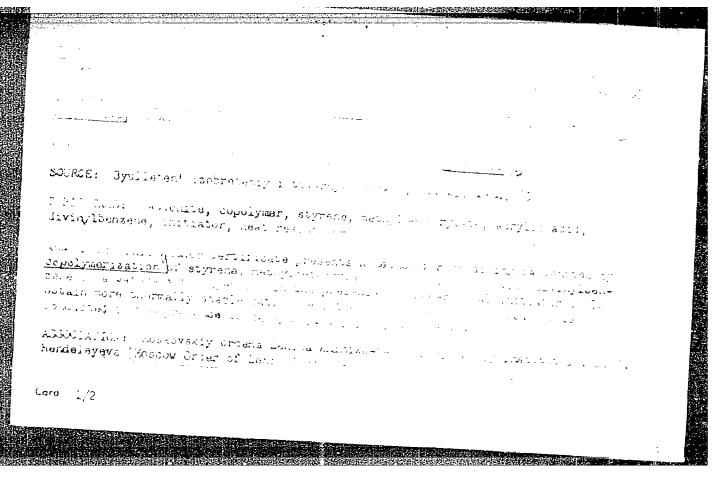
TITLE: A Method for Obtaining Anionites

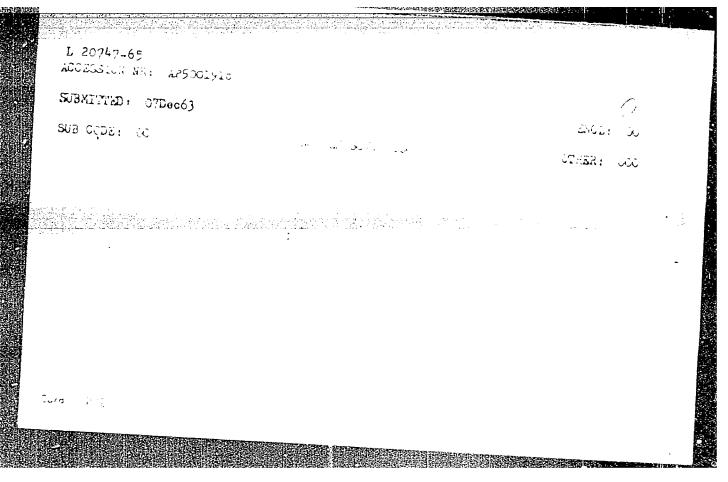
PERIODICAL: Byulleten' izobreteniy, 1961, No. 2, p. 39

TEXT: Class 39b, 22 No. 135218 (468485/23 of May 10, 1958). 1. A method of obtaining anionites based on vinylpyridine copolymers, the specific feature of which is its applicability to a greater number of ion-exchange resins used as raw materials. For this purpose, vinylpyridine rubber waste is used as the copolymer. This waste is vulcanized in the presence of sulfur and magnesium oxide, until it becomes like an ebonite, whereupon the product is granulated, 2. For the purpose of obtaining a high-base anionite, the copolymer granules are treated with ethyl bromide in the presence of methyl alcohol. 3. The new feature of this is the use of vulcanizers, produced as specified in 1 and 2, for the manufacture of homogenous anionite membranes,

Card 1/1

ACCESSION NR: AP4041917 AUTHOR: Losev, I. P.; Tevlina, A. S.; Kotlyarova, S. V. S/0286/64/000/012/0070/0071 TITLE: Preparative method for gas-impervious, homogeneous ionexchange membranes. Class 39, No. 163348 SOURCE: Byul. izobr. i tovar. znakov, no. 12; 1964, 70-71 TOPIC TAGS: polyethylene, poly(vinyl alcohol), vinylphosphoric acid, vinylbenzylphosphoric acid, ion exchange, ion exchange membrane, copolymerization ABSTRACT: An Author's Certificate has been issued for a process for preparing gas-impervious homogeneous ion-exchange membranes by graft copolymerization of vinyl- or vinylbenzyl-phosphoric acid or their esters, or methylvinylpyridine with polyethylene or poly(vinyl alcahol film by swelling the film in monomers. The monomer solution is prepared Association: none





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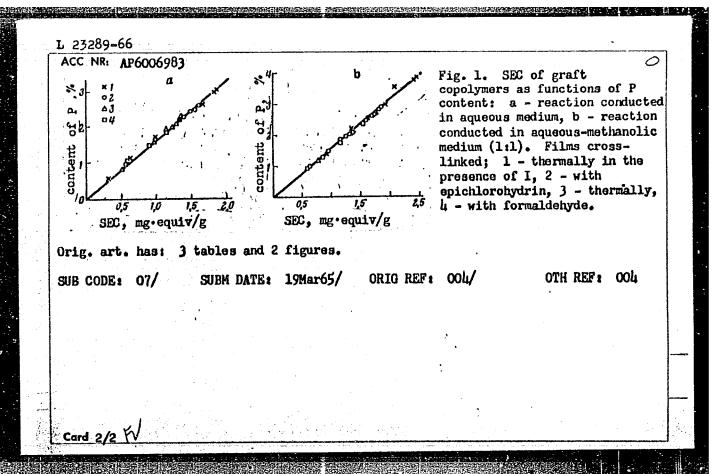
L 23289-66 EWT(m)/ETC(f)/EWG(m) DS/RM ACC NR. AP6006983 SOURCE CODE: UR/0190/66/008/002/0297/0301 AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Alovitdinov, A. B.; Ganzha, L. A. ORG: Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) ß TITLE: Synthesis of homogeneous ion exchange membranes by grafting of -phenyl- winyl phosphinic acid to water-insoluble films of polyvinyl alcohol (60th report in the series "Aliphatic polymers and copolymers") SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 297-301 TOPIC TAGS: graft copolymer, ion exchange membrane, polyvinyl alcohol ABSTRACT: Graft copolymerization of C -phenylvinyl phosphinic acid (I) to crosslinked water-insoluble films of polyvinyl alcohol (II) was investigated in the hope of producing ion exchange membranes with a uniform distribution of ionogenic groups. Copolymerization was performed with a variety of redox systems: 1) Ce4+ - II, 2) potassium persulfate - II, 3) potassium persulfate-potassium thiosulfate. Initiation takes place by formation of a macroradical which acts as a reducing agent. System (2) and II cross-linked thermally in the presence of I gave the best results. Static exchange capacity (SEC) of the graft copolymers as a function of the content of P is illustrated in Figs. la and b. The cation exchange membranes thus produced possess satisfactory physical, mechanical, and electrochemical properties.

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SOURCE CODE: UR/0413/66/000/0015/0089/0090

INVENTORS: Kolosnikov, G.S.; Tovlina, A.S.; Chuchun, A. Yo.; Barabashkina, I.

ORG: none

CITIE: Mothod for obtaining porous sulfo-ion-exchange resin. Class 39, No. 18/450 / Ammounced by Moscow Institute of Chemical Technology imeni D. I. Mondeleyov (Moskovskiy khimiko-tekinologicheskiy institut)

SOURCE: Izobrot prom obraz tov zn, no. 15, 1966, 89-90

TOPIC TAGS: ion exchange resin, polymerization, porosity, polymer, resin

ABSTRACT: This Author Certificate presents a method for obtaining a perous sulfoion-exchange resin by graft copolymerization of styrol and a polymer containing impropyl groups in the presence of a free-radical type initiator and of divinyl benzene as the cross-linking agent. The polymerization is followed by sulfonation with either sulfuric acid or weak oleum. To obtain a polymer with different poresity (capable of sorbing large organic ions), polyarylenealkyl is used as the isopropyl-group-containing polymer. SUB CODE: 11/ SUBM DATE: 05Feb65

Card 1/1 UDC: 661.183.123.2:62-405.8:678.746.22-139:66.094.403

L 10339-67 WP(j)/EWT(m) IJP(c) RM/DS

ACC NR: AP60:9908 (A) SOURCE CODE: UR/0413/66/000/015/0086/0086

INVENTORS: Kolesnikov, G. S.; Tevlina, A. S.; Novikova, S. P.; Levin, B. B.;
Chernomyrdina: L. F.; Abramova, T. D.

ORG: none

TITLE: A method for obtaining heat-resistant and chemically stable cationite

membranes. Class 39, No. 184427 (Cannounced by Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnicheskiy institut)

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 86

TOPIC TAGS: jon exchange membrane, monomer, polymer, graft copolymer, fluorine, acrylic acid

ABSTRACT: This Author Certificate presents a method for obtaining heat-resistant and chemically stable cationite membranes by grafting monomer compounds containing ionogenic groups to fluorine-containing copolymers. To obtain membranes characterized by a selectivity in separating the ions of polyvalent metals, a mixture of α -phenylvinyl phosphinic acid and acrylic acid or acrylonitryl is used as the monomer compound.

Card 1/1 Ma SUB CODE: 07/ SUBM DATE: 13May65 UDC: 661.183.123.2:678.743-139

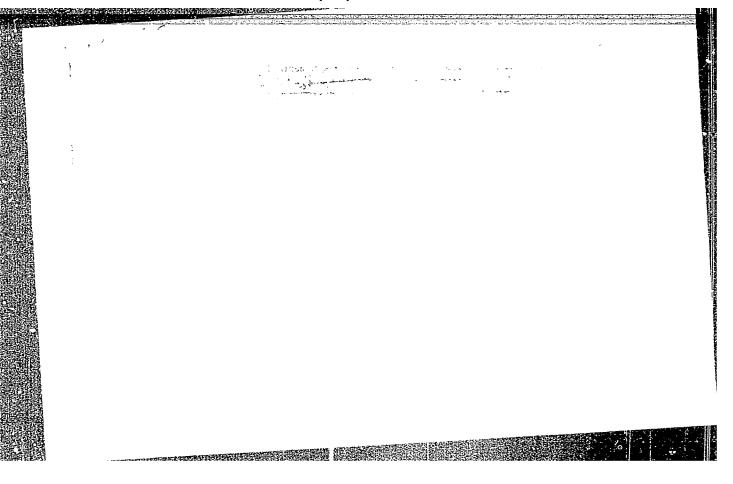
L 10423-67 ACC NRI AP6029913 SOURCE CODE: UR/0413/66/000/015/0087/0087 AUTHORS: Kolesnikov, G. S.; Chuchin, A. Ye.; Tevlina, A. S.; Yushmanova, V. A. ORG: none TITLE: A method for obtaining a porous sulfocationite. Class 39, No. 1844 Zannounced by Moscow Institute of Chemical Technology im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut) SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 87 TOPIC TAGS: copolymerization, styrol , sulfuric acid, ion ABSTRACT: This Author Certificate presents a method for obtaining a porous sulfo- ... cationite by the copolymerization of styrol and divinyl benzine. The copolymer so obtained is then sulfurized with sulfuric acid. To increase the sorptional ability of the cationite to large organic ions, a polymer hydroperoxide from polyarylenealkyl is introduced into the copolymerization reaction. SUB CODE: 11, 07/ SUBM DATE: OlDec64 UDC: 661.183.123.2:678.746.22-136.622:66.094.524.5

TEVONYAN, M. S. (Kavkazskiy institut mineral 'nogo syr'ya)

"The successful experiments on the separation of a lead-copper concentrate with potassium permanganate"

report presented at the 4th Scientific and Technical Session of the Wekhanobr Inst, Leningrad, 15-18 July 1958

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520001-5"



s/137/62/000/002/029/144 A006/A101

AUTHORS:

Vartanyan, K. T., Tevonyan, M. S.

TITLE:

Investigating a new depressor for selective flotation of molybdenum-

copper ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2055 ("Yezhegodnik Kavkazsk. in-ta mineral'n syr'ya za 1957 g", Moscow,

Gosgeoltekhizdat, 1959, 20)

The authors investigated a new depressor for flotating Agarak-type Cu-Mo-ores, containing carbonaceous substances. When investigating this depressor, ores of the Agarak deposit were employed which contained in %: Mo 0.05, Cu 0.3, Fe about 2. The ore contains 0.6% carbonaceous substances. The new depressor which can be used for depressing both carbonaceous substances and Cu minerals, will, probably, ensure the production of conditional Mo-concentrate.

A. Shmeleva

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001755520001-5" APPROVED FOR RELEASE: 03/14/2001

s/137/62/000/002/031/144 A006/A101

AUTHORS:

Tevonyan, M. S., Goguadze, L. D.

TITLE:

Studying the concentration ability of molybdenum-copper ores of

the Gekgyundur deposit (AzerbaydzhanSSR)

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2058 ("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g.", Moscow,

Gosgeoltekhizdat, 1959, 22)

The concentration ability of 2 Mo-ore samples was investigated. Sample no. 1 was Mo-ore and contained 2.10% Mo, 0.10% Cu. From this sample conditional Mo-concentrate was obtained, containing 47.3% Mo at 82% extraction. It is possible to obtain also high-percentage Mo-concentrate with 50 and 52% Mo at a somewhat lower extraction percentage (75%). Sample no. 2 was Cu-Mo ore with 0.14% Mo, 0.21% Cu and a high pyrite content. As a result of 6 purification operations with addition of cyanogen fuse and lime, a conditional Mo-concentrate was obtained with 47.8% Mo at 53% extraction, and conditional Cu-concentrate with 11.7% Cu at about 60% extraction. A. Shmeleva

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R001755520001-5" APPROVED FOR RELEASE: 03/14/2001

S/137/62/000/002/028/144 A006/A101

AUTHORS: Vartanyan, K. T., Tevonyan, M. S.

TITLE: Investigating the concentration capacity of low-molybdenum ore of

the Dzhindarin deposit (Armenian SSR)

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 8, abstract 2054

("Yezhegodnik Kavkazsk. in-ta mineral'n. syr'ya za 1957 g.",

Moscow, Gosgeoltekhizdat, 1959, 22-23)

TEXT: The authors investigated poor Cu-Mo ore containing 0.5% Cu and 0.022% Mo. According to the scheme of direct selective flotation a conditional Mo concentrate was obtained, containing 47.88% Mo, with extraction of 53% in an open cycle. The Cu-content in the Mo-concentrate was 0.56%. There is a possibility of obtaining a Mo-product with a considerably higher extraction percentage. Conditional Cu-concentrate is obtained with 15% Cu content at 65% extraction. To activate Cu minerals it is proposed to replace H2SO4 by new activators - HCl, HNO3, H2O2 and K2Cr2O7.

A. Shmeleva

[Abstracter's note: Complete translation]

Card 1/1

TEVOSIAN, I. T. ed.

RUSSIA

High-quality steel in the USSR Moskva, Glav. red. lit-ry po chernoi metallurgii, 1935. 162 p. (49-40909)

TS304.R8A5 1935

1. Steel industry and trade - Russia. 2. Steel. I. Tevosian, I. T., ed.

TEVOSOV, A.M., kand. veterin. nauk

Effect of pregnancy on the development of immunity in covariated against brucellosis. Veterinaria 38 no.11:27-28 (MIRA 1881) N 161

1. Ezerbaydzhanskiy nauchno-issledovatel'skiy veterinarnyy institut.

GANIYEV, M.K., prof.; TEVOSOV, A.M., kand. veter. nauk; SHIRINOV, F.B., aspirant

Etiology of diarrhea in piglets. Veterinariia 39 no.10:37-39 0 '62. (MIRA 16:6)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy veterinarnyy institut.

(Diarrhea) (Swine-Diseases and pests)